Journal of Mathematical Psychology

Volume 18, 1978

EDITOR:
William H. Batchelder
University of California, Irvine

BOARD OF EDITORS:

Clyde H. Coombs
University of Michigan
William K. Estes
Rockefeller University
Jean-Claude Falmagne
New York University
Peter C. Fishburn
Pennsylvania State University
James G. Greeno
University of Pittsburgh
Eric Holman
University of California, Los Angeles
Lawrence Hubert
University of California, Santa Barbara
Tarow Indow
Keio University, Japan
R. Duncan Luce
Harvard University
A. A. J. Marley
McGill University, Canada
M. Frank Norman
University of Pennsylvania
Edward N. Pugh, Jr.
University of Pennsylvania
Patrick Suppes
Stanford University
Amos Tversky
Hebrew University, Jerusalem
Dirk Vorberg
Universität Konstanz, Germany
Kenneth Wexler
University of California, Irvine

ACADEMIC PRESS
New York and London
A Subsidiary of Harcourt Brace Jovanovich, Publishers

Copyright © 1978 by Academic Press, Inc.

All Rights Reserved

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the copyright owner.

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc. (Operations Staff, P.O. Box 765, Schenectady, New York 12301), for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Copy fees for pre-1978 articles are the same as those shown for current articles.

Printed by the St. Catherine Press, Ltd., Bruges, Belgium

CONTENTS OF VOLUME 18

Number 1, August 1978

M. Frank Norman and C. R. Gallistel. What Can One Learn from a Strength–Duration Experiment? 1
James T. Townsend. A Clarification of Some Current Multiplicative Confusion Models 25
Eric W. Holman. Completely Nonmetric Multidimensional Scaling 39
J. C. Falmagne. A Representation Theorem for Finite Random Scale Systems . 52
Simeon M. Berman and Alan L. Stewart. Laterally Induced Impedance Effects in Vision 73

Note

A. Ducamp. A Note on an Alternative Proof of the Representation Theorem for Bi-Semiorder 100

Number 2, October 1978

Richard Schweickert. A Critical Path Generalization of the Additive Factor Method: Analysis of a Stroop Task 105
Osamu Katai and Sousuke Iwai. Studies on the Balancing, the Minimal Balancing, and the Minimum Balancing Processes for Social Groups with Planar and Nonplanar Graph Structures 140
Prakash P. Shenoy. On Coalition Formation in Simple Games: A Mathematical Analysis of Caplow's and Gamson's Theories 177
Ki Hang Kim and Fred W. Roush. Ultrametrics and Matrix Theory 195

Number 3, December 1978

Peter C. Fishburn. Choice Probabilities and Choice Functions 205
Václav Břicháček, Miroslav Katětov, and Aleš Pultr. A Model of Seemingly Irrational Solutions of a Task to Identify a Critical Set 220
Robert Bartoszyński. On Linear Classifications under Varying Choice Probabilities 249
Lowell W. Beineke and Frank Harary. Consistency in Marked Digraphs . . 260

Note

James S. Dyer and Rakesh K. Sarin. On the Relationship between Additive Conjoint and Difference Measurement 270

Announcements 273

Author Index for Volume 18 284